

Recombinant Mouse Phosphoglycerate Mutase 1, His-tagged

Cat. No. Pgam1-1955M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Pgam1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.
Species	Mouse
Source	E.coli
Description	Pgam1 belongs to the phosphoglycerate mutase family. This protein is an important component of glucose and 2,3-BPGA (2,3-bisphosphoglycerate) metabolism and catalyzes the reversible reaction of 3-phosphoglycerate (3-PGA) to 2-phosphoglycerate (2-PGA) in the glycolytic pathway. The PGAM is a dimeric enzyme containing, in different tissues, different proportions of a slow-migrating muscle (MM) isozyme, a fast-migrating brain (BB) isozyme, and a hybrid form (MB).
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT.
Molecular Weight	31.4 kDa (278aa) confirmed by MALDI-TOF
Purity	> 95% by SDS-PAGE
Concentration	1 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHSSGLVPRGSH MGSMAAYKL VLIRHGSAW NLENRFSGWY DADLSPAGHE EAKRGGQALRDAGYEFDICF TSVQKRAIRT LWTVLDAIDQ MWLPVVRTWR LNERHYGGLT GLNKAETAAK HGEAQVKIWRRSYDVPPPPM

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

EPDHPFYNSI SKDRRYADLT EDQLPSCESL KDTIARALPF WNEEIVPQIK
EGKRVLIAAHGNSLRGIVKH LEGLSEEAIM ELNLPTGIPI VYELDKNLKP
IKPMQFLGDE ETVRKAMEAV AAQGKVKK

Storage

Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

OfficialSymbol

Pgam1

nullValue_other

Pathway

Gluconeogenesis; Glucose metabolism; Glycolysis;Glycolysis / Gluconeogenesis;
Glycolysis and Gluconeogenesis; Glycolysis,core module involving three-carbon c
ompounds; Metabolic pathways; gluconeogenesis;glycolysis I; glycolysis II; glyco
lysis III

GENE INFORMATION

Gene Name

[Pgam1phosphoglycerate mutase 1 \[Mus musculus \]](#)

Synonyms

Pgam1; phosphoglyceratemutase 1; Pgam-1;2310050F24Rik; PGAM-B; EC 3.1.3.13;
EC 5.4.2.1; EC 5.4.2.4; BPG-dependent PGAM1; Phosphoglycerate mutase
isozymeB

Gene ID

[18648](#)

mRNA Refseq

[NM_023418](#)

Protein Refseq

[NP_075907](#)

UniProt ID

[Q9DBJ1](#)

Chromosome

19

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Location

 Tel: 1-631-559-9269 1-516-512-3133
 Email: info@creative-biomart.com  Fax: 1-631-938-8127
 45-1 Ramsey Road, Shirley, NY 11967, USA